

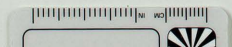
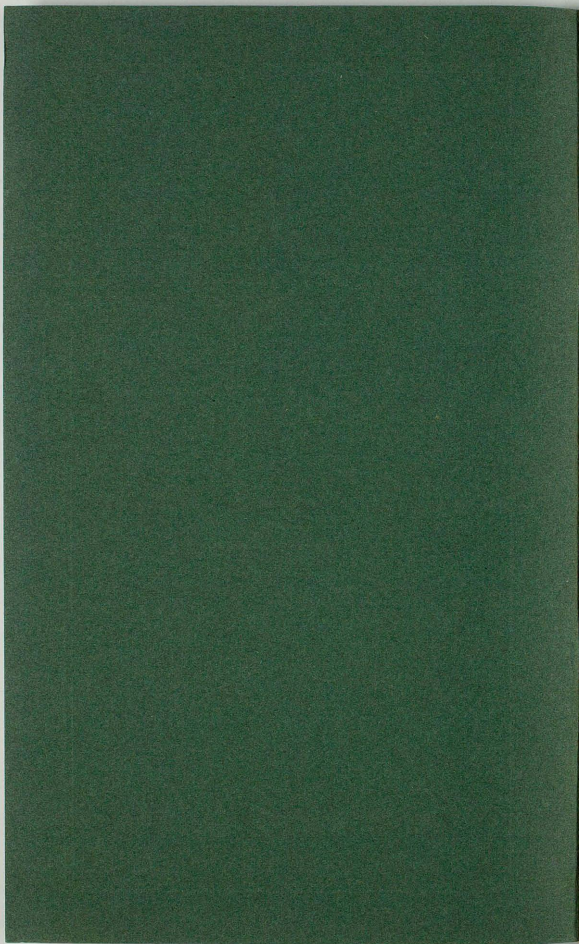
AIM Ann Report
1907 to 1908

Annual Report
OF THE
Auckland Institute
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FOR
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ADOPTED AT THE ANNUAL MEETING
HELD FEBRUARY 24, 1908.

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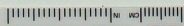
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Annual Report

American Institute

of Mathematics

1907-1908



OFFICERS
OF THE
Auckland Institute.

President:

E. V. MILLER, Esq.

Vice-Presidents:

PROF. F. D. BROWN, M.A. PROF. A. P. W. THOMAS, M.A.,
F.L.S.

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Trustees:

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Secretary and Curator:

T. F. CHEESEMAN, F.L.S., F.Z.S.

Auditor:

W. GORRIE, Esq.

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THE FOLLOWING

Periodicals and Publications of Societies

are subscribed to by the Institute :

NATURE

THE PHILOSOPHICAL MAGAZINE

THE AMERICAN JOURNAL OF SCIENCE

AMERICAN CHEMICAL JOURNAL

THE ELECTRICIAN

THE PHYSICAL REVIEW

ZEITSCHRIFT FÜR PHYSIKALISCHE CHEMIE

ANNALEN DER PHYSIK

COMPTES RENDUS DES SEANCES DE L'ACADEMIE DES SCIENCES

ANNALS AND MAGAZINE OF NATURAL HISTORY

QUARTERLY JOURNAL OF MICROSCOPICAL SCIENCE

ANNALS OF BOTANY

THE BOTANICAL GAZETTE

ENGLE'S BOTANICAL YEAR BOOK

THE GARDENER'S CHRONICLE

THE GEOLOGICAL MAGAZINE

ZEITSCHRIFT DER DEUTSCHEN GEOLOGISCHEN GESELLSCHAFT

SCIENCE PROGRESS

THE ECONOMIC JOURNAL

THE LANCET

TRANSACTIONS AND PROCEEDINGS OF THE ROYAL SOCIETY

TRANSACTIONS AND PROCEEDINGS OF THE ZOOLOGICAL SOCIETY

THE ZOOLOGICAL RECORD

PUBLICATIONS OF THE RAY SOCIETY

JOURNAL OF THE CHEMICAL SOCIETY

MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

QUARTERLY JOURNAL OF THE GEOLOGICAL SOCIETY

JOURNAL OF THE ROYAL AGRICULTURAL SOCIETY

THE GEOGRAPHICAL JOURNAL

REPORT OF THE BRITISH ASSOCIATION

Report of the Council.

IN accordance with the Rules of the Society, the Council have now to present to the members their fortieth Annual Report on the financial and general condition of the Institute and its progress during the past year.

MEMBERS. — Seventeen new members have been elected during the year. On the other hand, eleven names have been withdrawn from the roll—2 from death, 6 from resignation, and 3 from non-payment of subscription for more than two consecutive years. This leaves a net gain of 6, the total number on the roll at the present time being 176. The members removed by death are Mr. T. H. Smith, who served for some years on the Council, and who was well known as a leading authority on the language, manners and customs of the Maori race; and Mr. W. Will, late editor of the *Weekly News*.

The death at Wellington of Sir James Hector, the first Director of the Geological Survey and Manager of the New Zealand Institute, requires more than a passing notice. Arriving in the colony in 1862, to undertake the duties of Provincial Geologist of Otago, his services were soon transferred to a wider sphere, and in 1865 he became the Director of the Geological Survey and Curator of the Colonial Museum, other scientific departments being placed under his care at a later time. Mainly at his instigation, the New Zealand Institute Act was passed in 1867, leading to the formation of affiliated Societies in various parts of the colony. In 1868 he became the first Manager of the Institute, a position which he occupied until 1902. During this long period he edited, in addition to his ordinary work, the first thirty-five volumes of the Transactions of the New Zealand Institute, as well as the official publications of the Geological Survey and other Departments. He was practically the founder of the Institute; and it is largely due to his energy, business capacity, and successful administration that it has attained its present position.

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The Council desire to express their recognition of the many services which he has rendered to the Institute, and generally to the cause of science in New Zealand.

FINANCE.—In the Balance-sheets appended to the Report full details are given of the financial position of the Institute, but it is well to give a few explanatory remarks here. The total revenue of the Working Account, excluding the balance of £84 4s. 3d. in hand at the commencement of the year, has been £1,805 18s. 3d. In comparing this amount with that received during previous years, it is necessary to bear in mind that it includes two exceptional items; one of £660, being the Government subsidy on the amount raised by subscription for the erection of the Maori House and the purchase of Mr. Fenton's Pataka; the other of £112 10s., the balance of the Mackechnie bequest for the purchase of groups of animals. Deducting these sums, the ordinary revenue has been £1,033 8s. 3d., an amount considerably in excess of that for last year, which was £961 13s. 6d. Of the separate items, the largest consists of the receipts derived from the Museum Endowment, amounting to £419 13s. 2d., a sum exceeding by over £75 that received last year. The invested funds of the Costley bequest have yielded £355 12s., as against £356 5s. for the previous year. £96 10s. has been received as interest on the capital sum of the Mackechnie Library bequest; while the annual subscriptions have realised £147, a slight increase on the receipts for 1906-1907. The total expenditure has been £1,236 2s. 4d.; but this includes the balance of the cost of the erection of the Maori House, amounting to £156 1s. 3d., which is chargeable against the Government subsidy; also payments amounting in the aggregate to £139 18s. 3d. on account of the groups of animals for the Museum. Deducting these two items, the ordinary expenditure has been £940 2s. 10d., leaving a credit balance of £654 0s. 2d. in the Bank of New Zealand. Against this are contingent liabilities for the erection of the new workroom and other improvements in the Museum, presently to be referred to. There are no changes of importance with respect to the invested funds of the Institute, the total amount of which is £16,308 4s. 3d., showing an increase of £34 12s. 7d. during the year.

MEETINGS.—Ten meetings have been held during the year, at which the following papers were read:—

1. Introductory Address—By the President, Mr E. V. MILLER.
2. The Passing of the Maori—By the Rev. Archd. WALSH.

3. Science and Metaphysics—By Dr. R. BRIFFAULT.
4. On the Vegetation of Mount Hector, Tararua Range—By D. PETRIE.
5. Description of a New Species of Veronica—By D. PETRIE.
6. Botanical Nomenclature—By T. F. CHEESEMAM, F.L.S.
7. Translation of Dumont D'Urville's Account of his Visit to Tasman Bay—By S. PERCY SMITH.
8. The Composition of the Sun—By F. P. WORLEY, M.A.
9. The Disposal of City Sewage—By W. E. BUSH, C.E.
10. The Struggle for Foreign Trade—By Prof. H. A. SEGAR.
11. Maori Forest Lore—By ELSDON BEST.
12. Contributions to a Fuller Knowledge of the New Zealand Flora—By T. F. CHEESEMAM.
13. The Canoe that brought the Maoris to New Zealand, or a Glimpse of Polynesia in the Past—By K. WATKINS.
14. Additions to the New Zealand Fauna—By the Rev. W. H. WEBSTER.
15. Notes on the Destruction of Kumaras by Beetles—By Major T. BROWN.
16. On a Fungus (*Cordyceps* sp.) destructive to Scale Insects—By Major T. BROWN.
17. Notice of the Occurrence of Certain Marine Reptilia in New Zealand—By T. F. CHEESEMAM.
18. Notice of the Occurrence of the Lesser Frigate Bird in New Zealand—By T. F. CHEESEMAM.

Most of the above papers will appear in the next volume of the "Transactions," now being sent to the press. Volume 39 of the "Transactions," containing the papers read before the various affiliated Societies during the session for 1906, has been received and distributed among the members.

MUSEUM.—The hours of admission to the Museum have been the same as for many years past—from 10 a.m. to 5 p.m. on week-days, and from 2 to 5 p.m. on Sundays. The attendance of visitors has been satisfactory, being the largest yet recorded. The register kept by the attendant on Sunday afternoons shows that

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20,119 people entered the Museum on that day, being an average of 388 for each Sunday. The highest attendance was 924, on September 15; the lowest 42, on July 21. On the seven principal holidays: New Year's Day, January 29, Good Friday, Easter Monday, Empire Day, King's Birthday, and Boxing Day; the number of visitors was 3,036, or an average of 433. The average attendance on ordinary week-days can be safely given at 150, which would make a total of 45,900 for week-days, or 68,055 for the whole year. Last year's estimate was 62,551.

It has been already mentioned that the Government subsidy of £660 has been duly paid. After defraying the balance due for the erection of the Maori House, a sum of £500 remained for expenditure in the Museum. After due consideration the Council decided to expend about £400 in providing a properly equipped workroom, a necessary adjunct to any Museum, and the absence of which has been severely felt in Auckland. A contract for the work was let some time ago, and it is now fast approaching completion. The balance of the subsidy is being devoted to the construction of a range of show-cases to be placed in the small hall to the north of the Maori House. This is being gradually fitted up to receive the collection of foreign (mainly Polynesian) ethnographical specimens, most of which have been packed away for some considerable time. As the collection is in several respects an excellent one, its exhibition will doubtless prove an attractive addition to the Museum.

The most important addition made to the Museum during the year is a group of South African animals, purchased through the Mackechnie Bequest. It consists of a zebra, a waterbuck, a springbok, and a Pallah antelope. The mounting of the specimens is excellent, and the group, which has been placed at the eastern end of the main hall, has been much admired. It should be stated that the purchase of this group has exhausted the funds of the bequest; which, as stated in last year's report, has provided a series of large and conspicuous additions, and has greatly enhanced the appearance of the main hall.

A full list of all additions and donations to the Museum is given in the appendix to the Report; but the following deserve special mention. The Hon. E. Mitchelson has deposited his valuable collection of kauri gum, probably the most complete ever formed, and likely to possess still greater interest when the trade in kauri gum has become a memory of the past. An elab-

orate large-scale model of one of the fleet of the New Zealand Shipping Company has been deposited by the Company. Mr. G. Graham, who has been a frequent contributor to the Museum, has placed it under further obligations by presenting a considerable number of Maori articles, some of them of no small value. Several zoological and mineralogical specimens, mainly from Polynesia, have been presented by Mr. C. Seegner. An excellent series of the New Zealand frog (*Liopelma*) has been obtained through the kind offices of Mr. C. G. Gatland. A specimen of *Limulus*, which in some unexplained manner had found its way into Auckland Harbour, has been presented by Mr. Green; while Mr. New, of Pahi, has forwarded a specimen of the Lesser Frigate Bird, being the second occurrence of the species in New Zealand.

In previous reports the Council have repeatedly drawn attention to the slow growth of the zoological collections, principally due to the inability of the Institute to employ a resident taxidermist, or preparator of specimens. The Council are glad to state that there appears to be a reasonable probability of their being able to employ such an officer, probably during the present year. This would place the Museum on the same footing as the Southern Museums, each of which has a taxidermist as part of the permanent staff.

LIBRARY.—The improvement in the revenue of the Library, due to the receipts now regularly received from the Mackenzie Library Bequest, has enabled the Council to order three consignments of books from their London agents. Two of these, comprising over 140 volumes, have been received and placed in the Library, and the third will shortly arrive. A complete list of the books is given in the appendix to the Report. In addition to the books purchased, the usual exchanges and presentations from foreign institutions have been received; as also the scientific periodicals and magazines subscribed to by the Institute, a list of which will be found on another page. The Council have also to acknowledge the receipt of a valuable donation of 11 volumes from Mr. Shaw, including an excellent copy of Prichard's "Natural History of Man."

The rapid growth of the Library has made it absolutely necessary to provide additional shelf room, and two transverse presses have therefore been erected, which will accommodate at least 1,500 volumes. It should be mentioned, however, that the

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presses will interfere with the use of the Library for the larger meetings of the Institute, and that one of the first duties of the new Council will be to decide where such meetings are to be held in the future. Another improvement which has been made is that of a card catalogue of the Library. Suitable cabinets, with the necessary stock of cards, were obtained some little time ago. The typing of the titles of the books, and the arrangement of the cards, have just been completed, and the catalogue will be ready for use in a few days.

In concluding the Report, the Council wish to thank the members and others for the assistance and encouragement they have given in furthering the objects of the Institute. They also trust that the public will provide that active and liberal support which is due to an institution whose sole aim is to secure the advancement of knowledge, and the diffusion of scientific and practical information.



The Treasurer in Account with the Auckland Institute and the Museum Trust Board.

WORKING ACCOUNT.

February 20, 1907, to February 19, 1908.

	£	s.	d.		£	s.	d.
Balance in the Bank of New Zealand, February 20, 1907	84	4	3	Books, Periodicals, Binding, and other Expenditure on Library	192	8	8
Annual Subscriptions	147	0	0	Additions to Museum	56	12	6
Interest from Costley Bequest	355	12	0	Museum Requisites	28	11	1
Rents and Interest Transferred from Museum Endowment Account	419	13	2	Salaries	409	15	8
Interest Transferred from Mackechnie Library Bequest	96	10	0	Printing, Advertising, Insurance, Gas, Stationery, Postages, and other expenses	121	15	5
Interest from Nathan Bequest	5	0	0	Paid on Account of Groups of Mammals	139	18	3
Interest from Life Subscription Account	9	6	10	Paid to Investment Account to Extinguish Loan for Erection of Statue Hall	100	0	0
Government Subsidy	660	0	0	Paid to Investment Account to Extinguish Loan for Purchase and Erection of Maori House	156	1	3
Final Payment from Mackechnie Bequest for Purchase of Groups of Mammals	112	10	0	Land Tax	28	10	0
Miscellaneous	0	6	3	Miscellaneous Payments	2	9	6
				Balance in Bank of New Zealand, February 19, 1908	654	0	2
	<u>£1,890</u>	<u>2</u>	<u>6</u>		<u>£1,890</u>	<u>2</u>	<u>6</u>

T. F. CHEESEMAN, TREASURER.

Examined and found correct.

February 21, 1908.

W. GORRIE, AUDITOR.

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The Treasurer in Account with the Auckland Institute and the Museum Trust Board.

MUSEUM ENDOWMENT ACCOUNT.

February 20, 1907, to February 20, 1908.

	£	s.	d.		£	s.	d.
Balance in the Bank of New Zealand, February 20, 1907	4	4	3	Transferred to Working Account	419	13	2
Sales of Endowments	24	0	0	Transferred to Investment Account	34	12	7
Rents of Endowments	115	11	0	Bank Charges	0	10	0
Interest on Investments	313	8	2	Balance in Bank of New Zealand, February 20, 1908	2	7	8
	<u>£457</u>	<u>3</u>	<u>5</u>		<u>£457</u>	<u>3</u>	<u>5</u>

MACKECHNIE LIBRARY ACCOUNT.

	£	s.	d.		£	s.	d.
Balance in Bank of New Zealand, Feb. 20, 1907	1	10	0	Transferred to Working Account for Purchase of Books	96	10	0
Interest on Investments	96	10	0	Bank Charges	0	10	0
	<u>£98</u>	<u>0</u>	<u>0</u>	Balance in Bank of New Zealand, Feb. 20, 1908	1	0	0
					<u>£98</u>	<u>0</u>	<u>0</u>

T. F. CHEESEMAN, TREASURER.

Examined and found correct.

February 21, 1908.

W. GORRIE, AUDITOR.

Investments of the Auckland Institute.

On Mortgage on Freehold Security at 5 per cent.	4,000	0	0
N.Z. Government 4 per cent. Debentures	1,900	0	0
Dunedin Corporation 4½ per cent. Debentures	1,000	0	0
On Mortgage on Freehold Security at 5½ per cent.	350	0	0
On Mortgage on Freehold Security at 5¼ per cent.	250	0	0
On Mortgage on Freehold Security at 5½ per cent.	200	0	0
		7,700	0 0
Invested in Site of Museum	2,500	0	0
Expended in Erection of Ethnological Hall	1,500	0	0
Expended in Show Cases and Fittings	450	0	0
		4,450	0 0
Total of Costley Bequest		12,150	0 0
II.—MUSEUM ENDOWMENT—			
N.Z. Government 4 per cent. Debentures	1,700	0	0
Harbour Board 4½ per cent. Debentures	1,000	0	0
Gas Company Debentures	550	0	0
On Mortgage on Freehold Security at 5 per cent.	1,000	0	0
On Mortgage on Freehold Security at 5 per cent.	650	0	0
On Mortgage on Freehold Security at 5 per cent.	500	0	0
On Mortgage on Freehold Security at 5 per cent.	350	0	0
On Mortgage on Freehold Security at 5½ per cent.	420	0	0
Waiting Investment	142	4	3
		6,312	4 3
III.—MACKECHNIE LIBRARY BEQUEST—			
On Mortgage on Freehold Security at 5 per cent.	1,300	0	0
Dunedin Corporation 4½ per cent. Debentures	700	0	0
		2,000	0 0
IV.—NATHAN BEQUEST—			
On Mortgage on Freehold Security at 5 per cent.		100	0 0
V.—LIFE SUBSCRIPTION ACCOUNT—			
On Mortgage on Freehold Security at 5 per cent.	150	0	0
Deposited in Auckland Savings Bank	46	0	0
		196	0 0
Total		£20,758	4 3
Proportion bearing Interest		£16,308	4 3
Deeds for Securities and Receipts for Debentures lodged in Bank of New Zealand examined and found in order.			
February 31, 1908.			
W. GORRIE, AUDITOR.			

Additions and Donations

to the

Library and Museum.

- Parliamentary Papers and Reports; New Zealand Hansard for 1907; New Zealand Statistics; New Zealand Official Year Book; Annual Report and other Publications of the Department of Agriculture:—The New Zealand Government.
- Transactions of the New Zealand Institute, Vol. 39:—The New Zealand Institute.
- Bulletins Nos. 3 and 4 (new series) of the Geological Survey:—The Director of the Geological Survey.
- Journal of the Polynesian Society, parts of Vol. 16:—The Society.
- Journal of the Linnean Society of New South Wales, parts of Vols. 31 and 32:—The Society.
- Annual Report of the Department of Mines, New South Wales:—The Department.
- Annual Report of the New South Wales Fishery Board; Additions to the Fish Fauna of New South Wales; On a Collection of Fishes from Suwarrow Island; The Wafer:—The Fishery Board of New South Wales.
- Thirteen Botanical Pamphlets relating to the Flora of New South Wales:—Dr. Maiden, Botanical Gardens, Sydney.
- Annual Report of the Australian Museum for 1906; Records of the Australian Museum, various numbers:—The Museum.
- Transactions and Proceedings of the Royal Society of Victoria for 1906-1907:—The Society.
- Transactions and Proceedings of the Royal Society of South Australia for 1906-1907:—The Society.
- United States Consular Reports:—The Secretary of State, United States of America.
- Reports of the United States National Museum for 1906 and 1907; Proceedings of the U.S. National Museum, Vols. 30, 31, 32; Bulletins of the U.S. National Museum, Nos. 50, 53 Pt. 2, 56, 57, 58, 59, 60:—The Smithsonian Institution.
- Twenty-fourth and twenty-fifth Annual Reports of the Bureau of American Ethnology:—The Bureau.
- Sanderson's Hibernation of the Cotton Boll Weevil; Hind's Enemy of

the Cotton Boll Weevil; Morgan's Predatory Bug as an Enemy of the Cotton Boll Weevil; Pratt's Notes on the Pepper Weevil; Morrill's Strawberry Weevil; Morgan's Cotton Stalk-borer; Morrill's Mexican Conchuela in Texas; Pierce's Economic Importance of Sow-bugs; Chittenden's Injurious Species of Apion; Hooker's Tobacco Thrips; Chittenden's Asparagus Miner and Watercress Sow-bug; Chittenden's Cranberry Spanworm; Proceedings of the Nineteenth Meeting of Economic Entomologists; Moulton's Pear Thrips; Quaintance's Spring Canker-worm; Quaintance's Trumpet Leaf Miner; Girault's Lesser Peach Borer; Quaintance's Lesser Apple Worm; Webster's Chinch Bug; Report of Meeting of Inspectors of Apiaries; Hunter and Hooker's North American Fever Tick; Pierce's Parasites of the Cotton Boll Weevil; Hind's Natural Control of the Cotton Boll Weevil; Browne's Production and Care of Honey; Phillip's Wax Moths and American Foul Brood; Farmers' Bulletins, Nos. 264, 275, 283, 284, 290; Technical Series No. 12, parts 1 to 5; Circulars Nos. 43, 47, 75, 76, 77, 78, 80, 81, 82, 83, 84, 86, 87, 88, 93, 94, 96; Contributions to the United States National Herbarium, Vol. 10, parts 3, 4, 5, Vol. 11;—The Department of Agriculture, U.S.A.

Hall's Compositae of Southern California; Jepson's Synopsis of North American Godetias; Setchell's Unreported Alaskan Sphagna; Osterhout's Nutrient and Balanced Solutions; Goddard's Navaho Myths; Kroeber's Washo Language; Kroeber's Religion of Californian Indians; Kroeber's Indian Myths of South California; Kroeber's Shoshonean Dialects of California; Uhle's Emeryville Shell-mound; Kroeber's Yokuts Language:—The University of California.

Semi-annual Bulletin of the Colorado College, 2 parts:—The College.

Annals of the Observatory of Harvard College, Vols. 39, Pt. 2, and 58, Pt. 2:—The Observatory.

Transactions and Proceedings of the Nova Scotian Institute of Science, Vol. 12:—The Institute.

Report of the Geological Survey of Canada, Vol. 16; Various Papers and Memoirs:—The Geological Survey, Canada.

Occasional Papers of the Bishop Museum, Honolulu:—The Museum.

Publications of the Philippine Weather Bureau for 1907:—The Bureau.

Monthly Bulletin of the Observatory of Rio Janeiro:—The Observatory.

Journal of the Royal Colonial Institute, Vol. 38:—The Institute.

Symon's Monthly Meteorological Magazine:—The Editor.

The Museums' Journal for 1907:—The Museums' Association.

Icones Plantarum, parts of Vol. 9; Kew Bulletin for 1907:—The Director, Kew.

Eliot's Nudibranchs from New Zealand and the Falkland Islands:—The Author.

Reports and other Publications of the Deutsche Seewarte:—The Seewarte.

Prichard's Physical History of Man, 5 Vols. and 2 Vols. plates; McKenney's Indian Tribes of North America, 2 Vols. and 2 folio vols. plates:—Mr. H. Shaw.

Copy of the *Times* of June 22, 1815, containing the first official account of the Battle of Waterloo:—W. Forsyth.

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BOOKS PURCHASED.

Christiansen's Index Filicum.
Skeat and Blagden's Pagan Races of the Malay Peninsula, 2 Vols.
Kitson's Life of Captain Cook.
Poynting and Thomson's Text-book of Physics, Sound.
Lang's Secret of the Totem.
Vernon Harcourt's Sanitary Engineering with Respect to Water Supply.
Paulsen's German Universities.
Schrader and Jevon's Prehistoric Antiquities of the Aryan Peoples.
Fournier's Electron Theory.
Winton and Moeller's Microscopy of Vegetable Foods.
Quinn's Manual of Library Cataloguing.
Brown's Manual of Library Classification.
Wiley's Agricultural Analysis, Vol. 1, Soils.
Idding's Rock Minerals.
Wood's Physical Optics.
Baldwin's Dictionary of Philosophy, Vol. 3.
Lockyer's Inorganic Evolution.
Ostwald's Manual of Physics—Chemical Measurements.
Walker's Introduction to Physical Chemistry.
Lockyer's Educational and National Progress.
Morgan's Evolution and Adaptation.
Jevon's Coal Question.
Leonard's Lower Niger and its Tribes.
Preston's Theory of Heat.
Mitchell's Structure and Growth of Mind.
Cunyghame's Time and Clocks.
Wright's Principles of Microscopy.
Sloane's Liquid Air and the Liquefaction of Gases.
Poincarre's New Physics.
Binet's Mind and the Brain.
Lodge's Electrons.
Le Dantec's Nature and Origin of Life.
Chittenden's Nutrition of Man.
Percival's Agricultural Botany.
Scott Elliott's Romance of Plant Life.
Bruce's Voyage of the Scotia.
Larmor's Ether and Matter.
Armitage Smith's Principles and Methods of Taxation.
Maxwell's In Malay Forests.
Sollas's Age of the Earth.
Swettenham's British Malaya.
Annals of Tropical Medicine and Parasitology, Vol. 1.
Lowell's Mars and its Canals.

- Wildeman's Botany of the Voyage of the Belgica.
Weed's Formation of Travertine and Siliceous Sinter by the Vegetation of Hot Springs.
Montgomery's Analysis of Racial Descent.
Tryon's Manual of Conchology, 2nd Series, Vols. 1, 2, and 3.
Year Book of the United States Department of Agriculture for 1906.
Engler's Pflanzenreich, the parts published in 1907.
Fraser's Golden Bough, Adonis, Attis, and Osiris.
Jack and Etheridge's Geology and Paleontology of Queensland and New Guinea.
Pattison Muir's History of Chemical Theories.
Collins's New Agriculture.
-
- Group of South African Animals, consisting of Zebra, Waterbuck, Springbok, and Pallah Antelope:—Purchased out of the Mackechnie Bequest for Groups of Large Animals.
Maori Skull:—Frederick Mills.
Lower Jaw of Maori from Ngatipa (Te Kooti's stronghold):—H. E. Coleman.
Smaller Frigate Bird (*Freguetta ariel*):—G. V. New.
One pair of Takou Horns; Mounted Head of Indian Antelope:—J. M. McLaren.
Pied Oyster-Catcher (*Haematopus longirostris*):—John Dean.
Prion Turtur:—Mr. Burleigh.
Swamp Crake (*Porzana tabuensis*):—H. Wake.
Albino Blackbird:—E. Ring.
Fragments of Moa's Egg found near Coromandel.—J. Reilly.
Large Collection of Eggs of New Zealand Sea-birds:—A. Hansen.
Egg of Sparrow-hawk (*Nesierax Novae Zealandiae*):—H. Parker, Karamea, Nelson.
Footprints of Moa from Hokowhitu, Palmerston North:—H. J. Gilberd.
Python spilotis:—Fuller's Theatre Co.
Carapace of Australian Tortoise (*Chelodina longicollis*).
Pipe Fish (*Stigmatophora longirostris*):—Mr. Brennan.
Leather Jacket (*Monacanthus scaber*):—Mrs. Rogers.
Gonorhynchus sp.:—H. C. Robson.
Specimen of *Limulus*, captured in Auckland Harbour:—Green and Co.
Series of specimens of N.Z. Frog (*Liopelma*):—C. G. Gatland.
Young of *Sphenodon punctatum*, taken from the egg; two specimens of *Birgus latro*:—C. Seegner.
Green Lizard (*Naultinus elegans*):—J. Horsman.
New Zealand Lamprey (*Geotria australis*):—B. F. Cranwell.
Tahitian Mountain Trout:—J. L. Young.
Horned Lizard (*Phrynosoma*):—W. G. Talmage.
Sepioteuthis bilineata:—Ingham Stephens.
Solenognathus spinosissimus:—Bishop Williams.
Naultinus elegans and *Naultinus sulphureus*:—W. M. Ross.

- Fijian Insects and Crustacea:—S. Findlay.
Lasioryhynchus barbicornis:—F. Mineher.
Collection of Land Shells from New Caledonia; Australian Coleoptera:—
C. Coles, Sydney.
Concretions with Fossil Shells:—G. Graham.
Stalactite from Awitu; various minerals:—H. C. Robson.
Fossil Shells found in excavating for the foundations of the South
British Insurance Co.'s offices at Calcutta:—The Manager of the
South British Insurance Co., Calcutta.
Fossils from the Hartz Mountains, Germany; series of specimens of
Nickel and Cobalt Ores and other minerals from New Caledonia:
C. Seegner.
Two carved Soapstone Images from Alaska:—Mr. Hallyburton Johnstone.
Tui Cage from the Urewera Country; Dredge for Fresh-water Mussels
from Mokoia; Carved Funnel or Korere; Ancient Fish-hook; Net-
sinker:—G. Graham.
Carved Pa Post:—Sanderson Black.
Maori Ko, or Spade, with fixed foot-rests:—W. Wintle.
Iron Ramrod and Bullets from Ngatipa (Te Kooti's stronghold):—E.
Coleman.
Maori Stone Axes:—H. Williams.
Two Carved Mouth-pieces of a Taha, or Calabash, for holding preserved
birds:—Miss Maggie Papakura.
Carved Fishing Weight:—H. H. Calcott.
Two Maori Pekau Straps:—J. Findlay.
Carved Bone Thatching Needle; Bone Harpoon; unusually fine Hei-tiki;
Carved Box:—Purchased.
Two Greek Vases:—Professor Talbot Tubbs.
Unusually large and fine Collection of Kauri Gum, contained in two
glass show-cases:—Deposited by the Hon. E. Mitchelson.
Large Scale Model of the s.s. Kaikoura, with glass show-case:—Deposited
by the N.Z. Shipping Co.



List of Members

For the year ending March 31st,
1908.

[Honorary and Life Members distinguished thus *.]

Aickin, G., Auckland
Arnold, C., Auckland
Aubin, E. D., M.B., Thames

Bagnall, L. J., Auckland
Ball, W. T., Auckland
Bankart, A. S., Auckland
Bartley, E., Devonport
*Bates, T. L., Newcastle, N.S.W.
Batger, J., Auckland
Beere, D. M., C.E., Auckland
Benjamin, E. R., Auckland
Best, Elsdon, Ruatoki
Birks, L., C.E., Rotorua
Brett, H., Auckland
Briffault, R., M.R.C.S.E., Auckland
Broun, Major T., F.E.S., Drury
Brown, E. C., Taumarunui
Brown, Prof. F. D., Auckland
Buchanan, J., Auckland
Buddle, T., Auckland
Burgess, E. W., Devonport
Burnside, W., Auckland
*Burton, Colonel, Lake Takapuna
Bush, W. E., C.E., Auckland
Buttle, J., Auckland

Cameron, R., Auckland
*Campbell, Sir J. L., M.D., Auckl'd.
Carr, R. A., Auckland
Casey, M., Auckland
Cheal, P. E., Auckland
Cheeseman, T. F., F.L.S., Auckl'd.
Ching, T., Remuera
Clark, A., Auckland
Clark, H. C., Auckland
Clark, M. A., Auckland
Clarke, C. E., Lake Takapuna
Clarke, E., Auckland
Coates, T., Orakei
Cochrane, W. S., Auckland
Combes, F. H., Auckland
Cooper, C., Auckland
Cooper, Mr. Justice, Wellington
Cousins, H. G., Auckland
Cozens, G., Auckland

Craig, J. J., Auckland
Crosher, J., Auckland
Cuff, J. C., F.S.A., Auckland

Darby, P., Auckland
Devereux, H. B., Waihi
Devore, A. E. T., Auckland
Douglas, W. S., Auckland
Duthie, D. W., Auckland

Edson, J., Devonport
Egerton, Prof. C. W., Auckland
Ewington, F. G., Auckland

Florance, R. S., Russell
*Fowlds, Hon. G., M.P., Auckland
Fox, Rev. E. E., Ponsonby

George, G., Auckland
Gilbert, T., Parnell
Girdler, Dr., Auckland
Given, W. A., Thames
Goldie, D., Auckland
Gordon, H. A., Auckland
Gorrie, W., Auckland
Grant, Miss J., Devonport
Griffin, Miss E. M., Auckland
Gray, S., Auckland

Haines, H., F.R.C.S., Auckland
Hamer, J. H., C.E., Auckland
Hansen, P. M., Auckland
Hardie, J., Auckland
Hazard, H. D. M., Thames
Hazard, W. H., Auckland
Heaton, F., Auckland
Henry, W., Auckland
Herbert, T., Parnell
Hodgson, J., Auckland
Horton, H., Auckland
Houghton, C. V., Auckland
Howden, J., Auckland
Hutchinson, G., Auckland

Jarman, Prof. A., Auckland
Johnson, H. D., Te Aroha
Jones, H. W., Papakura

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Kenderdine, J., Auckland
Kidd, A., M.P., Auckland
Kirker, J., Auckland
Kronfeld, G., Auckland

Langguth, E., Auckland
Larner, V. J., Auckland
Lennox, J. M., Auckland
*Lennox, N. G., Sydney
Leys, T. W., Auckland
Lundon, J. R., Auckland
Lyell, W. S., Parnell

McMillan, C. C., Auckland
Mahoney, T., Auckland
Mair, Captain G., Thames
Mair, S. A. R., Rangitikei
Mair, Major W. G., Auckland
Martin, J., F.G.S., Auckland
Masefield, T. T., Auckland
McLean, M., Auckland
McDowell, W. C., M.D., Auckland
McLachlan, J. M., Auckland
Metcalfe, H. H., M.I.C.E., Auckland
Miller, E. V., Chelsea
Milnes, H. A. E., Auckland
Mitchelson, Hon. E., Auckland
Moody, T. P., Hikurangi
Morton, H. B., Auckland
Moss, E. B., Auckland
Munro, G. C., Sandwich Islands
Murdoch, D. L., Auckland
Myers, A. M., Auckland

*Nathan, N. A., Auckland
Newton, G. M., Auckland
Nicholson, O., Auckland

Pabst, Dr., Auckland
Paris, Rev. P. R., Otaki
Parker, W. F., Auckland
Partridge, H. E., Auckland
Patterson, G. W. S., Auckland
Peacock, T., Auckland
Petrie, D., F.L.S., Auckland
Phileox, W., Devonport
Philson, W. W., Auckland
Pond, J. A., Auckland
Powell, F. E., Auckland
Purdie, E. C., Auckland
Purdy, J. S., M.D., Auckland
Pycroft, A. T., Auckland

Rangihiroa, Dr., Auckland
Reid, J., Auckland
Renshaw, F., Auckland
Robertson, E., M.D., Auckland
Robertson, W. A., Auckland
Roche, H., Waihi
Rolfe, W., Auckland

Seegner, C., Auckland
Segar, Prof. H. W., Auckland
Shakespear, R. H., Little Barrier
Shaw, H., Auckland
Sinclair, A., Auckland
Smeeton, H. M., Auckland
Smith, H. G. S., Auckland
Smith, S. P., F.R.G.S., Taranaki
Smith, W. H., Auckland
Somerville, J. M., Chelsea
Speight, W. J., Auckland
Spencer, W. C. C., Auckland
Stewart, J., C.E., Auckland
Stopford, R. M.D., Auckland
Streeter, S. C., Auckland

Talbot-Tubbs, Prof. H. A., Auckland
Thomas, Prof. A. P. W., F.L.S., Auckland
Thompson, F. K., Auckland
Tibbs, J. W., Auckland
*Tinne, H., London

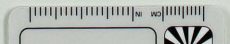
Upton, J. H., Auckland
Urquhart, A. T., Karaka

Vaile, E. E., Auckland

Walsh, Archd. P., Waimate
Waterworth, A., Auckland
Ward, P., Auckland
Webster, J., Hokianga
Webster, Rev. W., Waiuku
*Weetman, S., F.R.G.S., London
Wells, T. U., Auckland
Williams, Right Rev. W. L.,
Bishop of Waiapu, Napier.
Wilson, A. P., Auckland
Wilson, W. R., Auckland
*Withy, E., Opotiki

Yates, E., Auckland
Young, J. L., Auckland

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